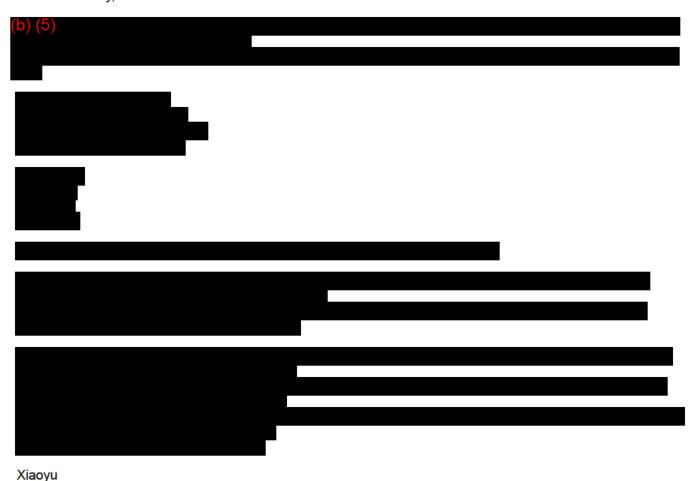
Re: Field Caulk Preparation -- follow-up

Liu, Xiaoyu <Liu.Xiaoyu@epa.gov>

Wed 6/15/2011 10:42 AM

To: Zhishi Guo <Guo ZhishiLNDU@usepa.onmicrosoft.com>; Mocka, Corey <mocka.corey@epa.gov> Cc: Nancy Roache <Roache.NancyLNDU@usepa.onmicrosoft.com>; Liu, Xiaoyu <Liu.Xiaoyu@epa.gov> Zhishi and Corey,



From: Zhishi Guo/RTP/USEPA/US

To: Corey Mocka/RTP/USEPA/US@EPA

Cc: Nancy Roache/RTP/USEPA/US@EPA, Xiaoyu Liu/RTP/USEPA/US@EPA

Date: 06/15/2011 08:39 AM

Subject: Re: Field Caulk Preparation -- follow-up

Corey:

Thanks much for raising the right questions. They can only improve the quality of our research.





Zhishi

From: Corey Mocka/RTP/USEPA/US To: Zhishi Guo/RTP/USEPA/US@EPA

Cc: Nancy Roache/RTP/USEPA/US@EPA, Xiaoyu Liu/RTP/USEPA/US@EPA

Date: 06/14/2011 10:33 PM

Subject: Re: Field Caulk Preparation -- follow-up

I completely agree that the dimensions of the extraction piece are necessary, but I am not entirely confident in the validity of the current measurements of each slice. I have tried to measure the dimensions in the past and encountered several issues. First, the original piece of caulking is not perfect- some sides are bowed. This makes it difficult to measure the actual "depth" and width, they are more of estimates. Also, it is rather hard to cut a uniform slice of caulking for extraction. The thickness varies greatly throughout the piece. I do not know how you prepare the samples, maybe you have a better method for cutting the caulk than I do. Another error source are air pockets in the caulk that formed when the caulk initially cured-basically there are holes in the extraction slice. Due to the awkward original dimensions of the caulk along with the inability to cut a perfect slice from the middle, I'm not sure if these rough measurements will appropriately depict the penetration depths. (This is hard to explain without a diagram. Sorry if it doesn't make sense.)

Also, in previous experiments I have taken the extraction slice and cut it up into several smaller pieces prior to extraction. Do we want to continue with this method or do we want to just extract the slice as a whole?

-----Zhishi Guo/RTP/USEPA/US wrote: -----To: Corey Mocka/RTP/USEPA/US@EPA From: Zhishi Guo/RTP/USEPA/US

Date: 06/14/2011 04:25PM

Cc: Nancy Roache/RTP/USEPA/US@EPA, Xiaoyu Liu/RTP/USEPA/US@EPA

Subject: Re: Field Caulk Preparation -- follow-up

Just wanted to follow up our conversation on cutting caulk samples for extraction. It might be a good idea to measure the dimensions of the "slices" individually, so we can calculate the penetration depths with better accuracy.

Zhishi

Corey Mocka---06/14/2011 03:44:45 PM---Dr. Guo: Below is the information pertaining to the NASA field caulk samples. Please prepare them by

From: Corey Mocka/RTP/USEPA/US To: Zhishi Guo/RTP/USEPA/US@EPA

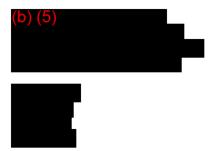
Cc: Nancy Roache/RTP/USEPA/US@EPA, Xiaoyu Liu/RTP/USEPA/US@EPA

Date: 06/14/2011 03:44 PM Subject: Field Caulk Preparation

Dr. Guo:

Below is the information pertaining to the NASA field caulk samples. Please prepare them by early next week if at all possible. I have a question about cutting the caulking for analysis. We initially analyzed a sliver perpendicular from the paste application area, but I believe Xiaoyu determined that might be inadequate. My suggestion is to take a sliver of caulking along the plane where the paste is applied. Please let me know your thoughts.

Thanks, Corey



Please try to stick to these dimensions as close as possible as they relate to an apparatus that holds the caulk during the method.

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